



## Garveia franciscana

"Pelo do Oso", hydroid

### Threat scores

1. Ecological impact
  - "Pelo do Oso" constitutes one of the three components of the metal/biota/solution system that interact in Lake Maracaibo, producing biofouling and microbiological corrosion
  - The latter generates great economic problems, mainly: water-pump failures
  - Its ecological impact includes: competition, habitat change, and predation, water-pump failures, increase in cleaning frequency at inlets, and decreasing efficiency of deoxygenating towers
  - Considered a plague in some regions of the world, demanding raised economic expenses in anti-incrustant treatments.
2. Invasive potential
  - A fouling organism requiring assisted transport to expand alien range
  - Known to extend distributions and abundances after extreme storms (Tropical Storm Agnes)
3. Geographic extent
  - Locally patchy
4. Management difficulty
  - Free Field Ultrasonic Radiation used to control colonial hydroid macrofouling
  - Twenty-four hour exposures to the sound regime caused destruction of the hydranths and regression of tissue in the stolons



### Geography and Habitat

1. Native: Prouty-Caspian region
  2. Introduced: Gulf of Mexico, Alaska, California
- Habitats
    - Marine, lakes, brackish water, water courses, estuaries/bays
    - A primitive macroscopic animal species that lives in colonies and requires dissolved oxygen in water, as well as the right concentration of chlorides above 1500 ppm for subsistence (Lopez, 1978)

### Invasion Pathways

1. Ballast water and sediments
2. Stocking in open water - oyster farming
3. Natural spread - ocean currents

### Non-Native Locations

1. 43- Northern Gulf of Mexico
2. 54- Gulf of Alaska
3. 58- Northern California
4. 59- Southern California Bight

### Sources

1. Molnar, Jennifer, et al. 2008. "Assessing the global threat of invasive species to marine biodiversity." *Frontiers in*

*Ecology and the Environment*. 6 (9), pp. 485-492.

2. <http://conserveonline.org/workspaces/global.invasive.assessment>
3. [http://www.solpugid.com/cabiota/garveia\\_franciscana\\_2.jpg](http://www.solpugid.com/cabiota/garveia_franciscana_2.jpg)